

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customer-care-usa@hellobio.com



DATASHEET

Apicidin

Product overview

Name	Apicidin
Cat No	HB1384
Biological action	Inhibitor
Purity	>98%
Description	Potent HDAC inhibitor

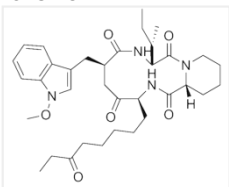
Biological Data

Biological description	Potent histone deacetylase (HDAC) inhibitor ($IC_{50} = 5 \text{ nM}$). Shows anti-protozoal, anti-angiogenic, anti-proliferative and anti-cancer actions.
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Solubility & Handling

Solubility overview	Soluble in DMSO (2mM) or ethanol (2mM)
Storage instructions	-20 °C
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Cyclo[(2 <i>S</i>)-2-Amino-8-oxodecanoyl-1-methoxy-L-tryptophyl-L-isoleucyl-(2 <i>R</i>)-2-piperidine carbonyl]
Molecular Weight	623.78
Chemical structure	
Molecular Formula	$C_{34}H_{49}N_5O_6$
CAS Number	183506-66-3
PubChem identifier	44593387
SMILES	<chem>CON2C1=CC=CC=C1C(C[C@@H](C(N[C@@H]([C@H](C)CC)C3=O)=O)NC([C@H](CCCCC(CC)=O)NC([C@]4([H])N3CCCC4)=O)=O)=C2</chem>
InChiKey	JWOGUUIOCYMBPV-VWQITCEGSA-N

References

Apicidin, a histone deacetylase inhibitor, inhibits proliferation of tumor cells via induction of p21WAF1/Cip1 and gelsolin.

Han JW *et al* (2000) Cancer Res 60(21)

PubMedID [11085529](#)

Apicidin: a novel antiprotozoal agent that inhibits parasite histone deacetylase.

Darkin-Rattray SJ *et al* (1996) Proc Natl Acad Sci U S A 93(23)

PubMedID

8917558

Apicidin is a histone deacetylase inhibitor with anti-invasive and anti-angiogenic potentials.

Kim SH *et al* (2004) Biochem Biophys Res Commun 315(4)

PubMedID

14985106
